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REPORT NO.

COUNTRY East Germany

SUBJECT Single Sideband Transmitter Constructed at
Funkwerk KoepenickPLACE
ACQUIRED

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DATE OF
INFO.

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SOURCE

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The 50 Kc. single side-band transmitter now in development at Funkwerk Koepenick is intended to be used for the East Asi service of East Germany. The designator under which it will be carried is "commercial traffic." This, however, is a general cover designation, as it is known that the transmitter will also be used for diplomatic and eventually for military traffic. The transmitter will operate with two channels in the following way:

- a. One broadcasting band per channel, or
- b. Two telephone bands per radio band; that is, a total of four telephone bands, or
- c. Five to ten telegraph lines instead of each telephone band; that is a total of 20 to 40 telegraph bands.

When its completion the transmitter will be placed in the vicinity of Berlin, probably near Babelsberg. The exact location has not yet been determined. It is fairly certain that the instrument will be placed within a 30-kilometer radius from Berlin, because otherwise amplifying installations would also have to be developed; there is no such development. Development of the transmitter has suffered delays. The date for completion of development has now been set for the end of March 1953. If this date cannot be met, construction of the instrument will not be completed before the end of 1953.

- d. The degree of carrier suppression is five percent. Carrier suppression is variable; it can be made to assume all values between 5 and 100 percent. There has been talk to the effect that the transmitter is to be provided with equipment for the inversion of its side-bands or of parts of its side-bands. Such equipment, however, is not under development at Funkwerk Koepenick. If the equipment for the inversion of the side-bands is actually to be developed, this would be done at the Fernmeldetechnisches Zentralamt of the East German postal service at Mauerstrasse in Berlin.

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4. No single side-band suppressed carrier transmitter other than the one with built-in carrier is under development. No order for the development of another transmitter of this kind has been issued to Funkwerk Koepenick. 4/

5. The transmitter can be operated as a single side-band transmitter or also, through change of modulation, its two side-bands can be put into operation. In the latter case, it is used for broadcasting; the broadcasting is received with regular receiver sets. Since no plans exist for putting relay stations into operation, broadcasts from the transmitter would cover only a limited distance. For the operation of the transmitter as a single side-band transmitter, a special receiver set is under development in Department TSK of Funkwerk Koepenick, headed by Wilhelm Grism. This special receiver set is similar to the combination receiving set now being developed in Grism's department. 5/ The receiver set for the single side-band transmissions will be provided with special equipment which will make it possible to separate the individual radio, telephone and telegraph lines and to connect the listener with the right party.

6. The carrier wave length of the transmitter is 12 to 100 meters. It is not yet known and probably not yet determined on which individual wave length the transmitter is to be operated. Probably there will be several operation wave lengths, dependent upon daytime operations, dusk operations, nighttime operations, and also dependent upon the season and climatic factors.

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1. [] Comment: []

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2. [] Comment: The same source previously reported that development was scheduled to be completed by the beginning of July 1953, with construction of the transmitter beginning immediately thereafter and continuing for approximately three months. []

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3. [] Comment: [] it was erroneously reported that the degree of carrier suppression is three percent.

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4. [] Comment: Funkwerk Koepenick is the only place in East Germany which is able to develop this transmitter.

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5. [] Comment: Details on the combination receiving set are contained in []

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6. [] Comment: [], another channel reported the development of a 150 kw single sideband transmitter. This is believed to be erroneous, that the 50 kw transmitter was meant. So far as is known, only the 50 kw single sideband transmitter is under development or has been ordered.

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